

## MERCHANT &amp; GOULD P.C.

## United States Patent Application

## DECLARATION

As a below named inventor, we hereby declare that: our residences, post office addresses and citizenships are as stated below next to our names; that

We verily believe we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled MERGED DEFECT ENTRIES FOR DEFECTS RUNNING IN CIRCUMFERENTIAL AND RADIAL DIRECTIONS ON A DISC.

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (described hereinbelow).

We hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

- a. ☒ no such applications have been filed.  
b. ☐ such applications have been filed as follows:

FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC § 119			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)
ALL FOREIGN APPLICATION(S), IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S)			
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	DATE OF ISSUE (day, month, year)

We hereby claim the benefit under Title 35, United States Code, § 120/365 of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)

We hereby claim the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below:

U.S. PROVISIONAL APPLICATION NUMBER	DATE OF FILING (Day, Month, Year)
60/283,493	April 12, 2001

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2	Full Name Of Inventor	Family Name Liew	First Given Name San Yuan	Second Given Name
0	Residence & Citizenship	City Singapore	State or Foreign Country Singapore	Country of Citizenship Malaysia
1	Post Office Address	Post Office Address Block 8, Holland Avenue #07-32	City Singapore	State & Zip Code/Country Singapore, 271008/Singapore
Signature of Inventor 201:			Date: 22/10/2001	
2	Full Name Of Inventor	Family Name Lim	First Given Name Teck Khoon	Second Given Name
0	Residence & Citizenship	City Singapore	State or Foreign Country Singapore	Country of Citizenship Singapore
2	Post Office Address	Post Office Address Blk. 218, #03-27, Bedok North Street 1	City Singapore	State & Zip Code/Country Singapore, 460218/Singapore
Signature of Inventor 202:			Date: 22/10/2001	
2	Full Name Of Inventor	Family Name Chia	First Given Name Kok Hoe	Second Given Name
0	Residence & Citizenship	City Singapore	State or Foreign Country Singapore	Country of Citizenship Singapore
3	Post Office Address	Post Office Address 2 Jalan Sukachita	City Singapore	State & Zip Code/Country Singapore, 358878/Singapore
Signature of Inventor 203:			Date: 22 Oct 2001	

#### § 1.56 Duty to disclose information material to patentability.

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

- (1) prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application:

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s):	San Yuan Liew, Teck Khoon Lim, and Kok Hoe Chia		
Serial No.:	Unknown	Examiner:	Unknown
Filed:	April 12, 2001	Group Art Unit:	Unknown
Title:	MERGED DEFECT ENTRIES FOR DEFECTS RUNNING IN CIRCUMFERENTIAL AND RADIAL DIRECTIONS ON A DISC		
Docket:	STL10252/40046.164USU1		

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)

As assignee of record of the entire interest of the above identified application, all powers of attorney previously given are hereby revoked and the following practitioners/patent agents are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Shawn B. Dempster, Registration No. 34,321	Edward P. Heller, III, Registration No. 29,075
Jonathan B. Olson, Registration No. 41,231	Raghunath S. Minisandram, Registration No. 38,683
Derek J. Berger, Registration No. 45,401	Paul T. Dietz, Registration No. 38,858
Kirk A. Cesari, Registration No. 47,479	Carol I. Bordas, Registration No. 37,284
Mitchell K. McCarthy, Registration No. 38,794	

And members of the firm of Merchant & Gould P.C.

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Anderson, Gregg I.	Reg. No. 28,828	Holzer, Jr., Richard J.	Reg. No. 42,668
Batzli, Brian H.	Reg. No. 32,960	Hope, Leonard J.	Reg. No. 44,774
Beard, John L.	Reg. No. 27,612	Jardine, John S.	Reg. No. P-48,835
Berns, John M.	Reg. No. 43,496	Johnston, Scott W.	Reg. No. 39,721
Branch, John W.	Reg. No. 41,633	Kadievitch, Natalie D.	Reg. No. 34,196
Brown, Jeffrey C.	Reg. No. 41,643	Kaseburg, Frederick A.	Reg. No. 47,695
Bruess, Steven C.	Reg. No. 34,130	Kettelberger, Denise	Reg. No. 33,924
Byrne, Linda M.	Reg. No. 32,404	Keys, Jeramie J.	Reg. No. 42,724
Campbell, Keith	Reg. No. 46,597	Knearl, Homer L.	Reg. No. 21,197
Carlson, Alan G.	Reg. No. 25,959	Kowalchyk, Alan W.	Reg. No. 31,535
Caspers, Philip P.	Reg. No. 33,227	Kowalchyk, Katherine M.	Reg. No. 36,848
Clifford, John A.	Reg. No. 30,247	Lacy, Paul E.	Reg. No. 38,946
Cook, Jeffrey	Reg. No. P-48,649	Larson, James A.	Reg. No. 40,443
Daignault, Ronald A.	Reg. No. 25,968	Leonard, Christopher J.	Reg. No. 41,940
Daley, Dennis R.	Reg. No. 34,994	Liepa, Mara E.	Reg. No. 40,066
Dalglish, Leslie E.	Reg. No. 40,579	Lindquist, Timothy A.	Reg. No. 40,701
Daulton, Julie R.	Reg. No. 36,414	Lown, Jean A.	Reg. No. 48,428
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DiPietro, Mark J.	Reg. No. 28,707	McDonald, Daniel W.	Reg. No. 32,044
Doscotch, Matthew A.	Reg. No. P-48,957	McIntyre, Jr., William F.	Reg. No. 44,921
Edell, Robert T.	Reg. No. 20,187	Mitchem, M. Todd	Reg. No. 40,731
Epp Ryan, Sandra	Reg. No. 39,667	Mueller, Douglas P.	Reg. No. 30,300
Glance, Robert J.	Reg. No. 40,620	Nelson, Anna M.	Reg. No. 48,935
Goggin, Matthew J.	Reg. No. 44,125	Parsons, Nancy J.	Reg. No. 40,364
Golla, Charles E.	Reg. No. 26,896	Pauly, Daniel M.	Reg. No. 40,123
Gorman, Alan G.	Reg. No. 38,472	Phillips, John B.	Reg. No. 37,206
Gould, John D.	Reg. No. 18,223	Pino, Mark J.	Reg. No. 43,858
Gregson, Richard	Reg. No. 41,804	Prendergast, Paul	Reg. No. 46,068
Gresens, John J.	Reg. No. 33,112	Pytel, Melissa J.	Reg. No. 41,512
Hamer, Samuel A.	Reg. No. 46,754	Qualey, Terry	Reg. No. 25,148
Hamre, Curtis B.	Reg. No. 29,165	Reich, John C.	Reg. No. 37,703

TELETYPE UNIT

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Schuman, Mark D. Reg. No. 31,197  
Schumann, Michael D. Reg. No. 30,422  
Scully, Timothy B. Reg. No. 42,137  
Sebald, Gregory A. Reg. No. 33,280  
Skoog, Mark T. Reg. No. 40,178  
Spellman, Steven J. Reg. No. 45,124  
Stewart, Alan R. Reg. No. 47,974  
Stoll-DeBell, Kirstin L. Reg. No. 43,164  
Sullivan, Timothy Reg. No. 47,981  
Summer, John P. Reg. No. 29,114  
Swenson, Erik G. Reg. No. 45,147  
Tellekson, David K. Reg. No. 32,314  
Trembath, Jon R. Reg. No. 38,344

Tunheim, Marcia A.  
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Vandenburgh, J. Derek  
Wahl, John R.  
Weaver, Paul L.  
Welter, Paul A.  
Whipps, Brian  
Whitaker, John E.  
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Williams, Douglas J.  
Withers, James D.  
Witt, Jonelle  
Wu, Tong  
Young, Thomas  
Zeuli, Anthony R.

Reg. No. 42,189  
Reg. No. 27,403  
Reg. No. 32,179  
Reg. No. 33,044  
Reg. No. P-48,640  
Reg. No. 20,890  
Reg. No. 43,261  
Reg. No. 42,222  
Reg. No. P-48,229  
Reg. No. 27,054  
Reg. No. 40,376  
Reg. No. 41,980  
Reg. No. 43,361  
Reg. No. 25,796  
Reg. No. 45,255

**CHANGE OF ATTORNEY'S/AGENT'S ADDRESS IN APPLICATION**

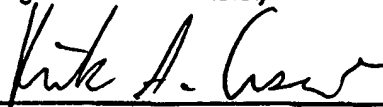
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**STATEMENT UNDER 37 CFR 3.73(b)**

Seagate Technology LLC states that it is the Assignee of Entire Interest in the patent application/patent identified above by virtue of an Assignment from the inventor(s) of the patent application/patent identified above. A copy of the Assignment is attached and/or was recorded in the Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_. The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the Assignee.

Respectfully submitted,

SEAGATE TECHNOLOGY LLC  
(Assignee of Entire Interest)



Kirk A. Cesari, Registration No. 47,479  
SEAGATE TECHNOLOGY LLC  
Intellectual Property Dept. - SHK2LG  
1280 Disc Drive  
Shakopee, MN 55379-1863  
Phone: 952-402-2736  
Fax: 952-402-2657

Date

10-31-01

ASSIGNMENT

WHEREAS, we, San Yuan Liew, residing at Block 8, Holland Avenue #07-32, Singapore 271008; Teck Khoo Lim, residing at Blk. 218, #30-27, Bedok North Street 1, Singapore 460218; Kok Hoe Chia, residing at 2 Jalan Sukachita, Singapore 358878, are the inventors of an invention entitled MERGED DEFECT ENTRIES FOR DEFECTS RUNNING IN CIRCUMFERENTIAL AND RADIAL DIRECTIONS ON A DISC that is the subject matter of a provisional application for Letters Patent which is identifiable in the United States Patent and Trademark Office by Serial No. 60/283,493, filed April 12, 2001; and

WHEREAS, Seagate Technology LLC, a limited liability company organized and existing under and by virtue of the laws of the State of Delaware and the United States of America, and having offices at 920 Disc Drive, Scotts Valley, California 95067 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention, the applications, and any and all Letters Patent or similar foreign or domestic legal protection;

NOW THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we transfer to Assignee, its successors and assigns, our entire right, title and interest in and to the invention, the above-identified applications, all provisional applications from which any of the above-identified applications claim priority, corresponding domestic and foreign applications, any continuation, division, renewal, or substitute for the applications, all Letters Patent, any reissue, re-examination, or similar legal protection issuing related to the Letters Patent, and all rights and benefits under any applicable treaty or convention; and we authorize the Director of the United States Patent and Trademark Office or foreign equivalent to issue the Letters Patent or similar legal protection to the Assignee.



We authorize the Assignee, its successors and assigns, to insert in this instrument the filing date(s) and serial numbers of the application when ascertained. We further authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries and appoint Assignee the common representative in the above-identified international application and any international application for the invention.

We represent to the Assignee, its successors and assigns, that we have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. We and our

executors or administrators will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute and deliver to Assignee or its legal representatives such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the letters Patent or similar legal protection on the invention in any and all countries, including without limitation providing testimony in any related interference litigation or proceeding.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of October, 2001.

22/10/2001  
Date

  
\_\_\_\_\_  
San Yuan Liew  
LEOW JOON WAH   
\_\_\_\_\_  
Witness

FOR OFFICIAL USE ONLY

IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of  
October, 2001.

22 | 10 | 2001  
Date

Lin Teck Khuan  
Teck Khoon Lim  
XIA LAN      Xia Lan  
Witness

TECK KHOO LIM



IN TESTIMONY WHEREOF, I have hereunto set my hand this 22 day of October, 2001.

Kok Hoe Chia

Kok Hoe Chia

22/10/2001  
Date

Yean Wei Ming Wing  
Witness

FOOTNOTES